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LEE & HAYES PLLC 421 W RIVERSIDE AVENUE SUITE 500			TRAN, TONGOC	
SPOKANE, WA 99201		2 300	ART UNIT	. PAPER NUMBER
ŕ			2134	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Antique Commence	09/536,033	JAKUBOWSKI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tongoc Tran	2134	_
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a ly within the statutory minimum of thi will apply and will expire SIX (6) MO e, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 23 h			
<i>'</i> —	s action is non-final.		
3) Since this application is in condition for allowated closed in accordance with the practice under I	•	·	
·	Ex parte Quayre, 1000 O.	5. 11, 400 0.0. 210.	
Disposition of Claims			
4) ☐ Claim(s) 1-36 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-36 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	cepted or b) objected to drawing(s) be held in abeya tion is required if the drawin	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in a prity documents have been nu (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)	-		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 	

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DETAILED ACTION

1. This office action is in response to Applicant's amendment filed on 3/23/2004. Claims 1, 23, 32 and 33 are amended. Claims 1-36 are pending.

Response to Arguments

2. With respect to the objection of the claims with the use of the term "good" versus the term "goods". The term "goods" is commonly referred to as commodities in general business practices, such as goods and services. Since Applicant points out from the specification that the term "good" is intended to refer to as a singular noun of "goods". Therefore, the objection is now withdrawn.

Applicant's arguments with respect to claims 8, 12 and 27 have been considered but are most in view of the new ground(s) of rejection.

Response to Applicant's remark for claims 1-7:

Sung teaches "either the programming software or the user selects which of the encryptions (see Abstract, encryption schemes) to use, preferably at random" (col. 6, lines 32-40).

Response to Applicant's remark on claims 9 and 15-16:

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., applying multiple forms of protection to a same (overlapping) portion of data or instruction) are not recited in the rejected claim(s). Although the claims are interpreted

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in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Response to Applicant's remark on claims 13 and 14:

Claims 13 and 14 recites "receiving quantitative parameter indicative of how much the protected digital good should be altered" (claim 13) and the transforming is performed to satisfy the quantitative parameters" (claim 14). Gutowitz teaches that information are partially encrypted according to different level of security and/or destined for different uses to be encrypted into the same ciphertext" (col. 35, lines 64-68). Therefore, in order for the same ciphertext to be partially encrypted, it is inherently required that information such as how much or what data (quantitative parameter) need to be protected before the encryption is performed.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 8, 12-14, 17-18, 22, 27 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) in view of Gutowitz (U.S. Patent No. 5,365,589).

In respect to claim 8, Yorke-Smith discloses a method comprising: segmenting a digital goods into a plurality of segments (see col. 3, lines 25-27).

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transforming data segments according to different protection techniques to produce a protected digital goods having a composite of variously protected segment (see col. 1, lines 58-67).

Yorke-Smith does not explicitly disclose but Gutowitz discloses selecting and transforming selected portions of data segments (Gutowitz, col. 35, lines 64-67). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Gutowitz's encrypting selected portions of data with the teaching of Yorke-Smith's encrypting data segment according to different protection techniques in order to protect selected information to different users according to different levels of security (Gutowitz, col. 35, lines 64-66).

In respect to claim 12, Yorke-Smith and Gutowitz disclose a method as recited in claim 8, wherein the transforming comprises:

Augmenting at least one segment using a certain protection technique (see col. 1, lines 48-65); and inserting a checkpoint, which may be used to evaluate a validity of the augmented segment, within the protected digital goods but outside of the augmented segment being evaluated (see col. 3, lines 25-42).

In respect to claim 13, Yorke-Smith discloses a method as recited in claim 8. Yorke-Smith does not explicitly disclose but Gutowitz discloses comprising receiving quantitative parameters indicative of how much the protected digital goods should be altered (see col. 35, lines 39-67, partial encryption). It would have been obvious to one of ordinary skill in the art to combine the teaching of Yorke-Smith's encryption method for encrypting data into a plurality of controlled and data blocks with Gutowitz's teaching



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of partially encrypting digital data so that it enables information of different levels of security and/or destined for different uses to encrypted into the same ciphertext (see Gutowitz, col. 35, lines 64-66).

In respect to claim 14, Yorke-Smith and Gutowitz further discloses a method as recited in claim 13, wherein the transforming is performed to satisfy the quantitative parameter (see Gutowitz, col. 35, lines 39-67).

In respect to claim 17, the claim limitation is a computer-readable medium claim which is substantially similar to method claim 8 and therefore the same rejection applied.

In respect to claim 18, Yorke-Smith discloses a method comprising:

parsing the software product into code sections segments (see col. 3, lines 25
27);

selecting at least one code section (see col. 1, lines 53-55); augmenting the selected code section to add protection qualities (see col. 1, lines 58-67);

repeating the selecting and the augmenting for different code sections until the desired quantity of protection has been applied (see col. 1, lines 48-67).

Yorke-Smith does not explicitly disclose establishing parameters prescribing a desired quantity of protection to be applied to a software product and augmenting the selected code section to add protection qualities (partially encrypting code section). However, Gutowitz discloses partially encrypting image file (see col. 35, lines 39-67). It would have been obvious to one of ordinary skill in the art to combine the teaching of Yorke-Smith's encryption method for encrypting data into a plurality of controlled and

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data blocks with Gutowitz's teaching of partially encrypting digital data so that it enables information of different levels of security and/or destined for different uses to encrypted into the same ciphertext (see Gutowitz, col. 35, lines 64-66).

In respect to claim 22, the claim limitation is a computer-readable medium claim which is substantially similar to method claim 18 and therefore the same rejection applied.

In respect to claim 27, the claim limitation is a system claim which is substantially similar to method claim 18 and therefore the same rejection applied.

In respect to claim 31, Yorke-Smith and Gutowitz disclose an obfuscation system as recited in claim 27, further comprising a quantitative unit to specify a quantity of protection qualities to be added to the digital goods (see Gutowitz, col. 35, lines 39-63).

5. Claims 10-11 and 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) and Gutowitz (U.S. Patent No. 5,365,589) and further in view of Sung et al. (U.S. Patent No. 5,768,372).

In respect to claim 10, York-Smith and Gutowitz do not disclose but Sung discloses explicitly disclose a method as recited in claim 8, wherein the selecting comprises randomly selecting the segments (see col. 3, lines 1-20). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Yorke-Smith's encryption method for encrypting data into a plurality of controlled and data blocks with Sung's teaching of randomly selecting the segments for a more secure data transmission because even if all the potential

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encryptions is known, one has to know which encryption is associated with a particular encryption selection data (see Sung, col. 3, lines 16-20).

In respect to claim 11, York-Smith and Gutowitz do not explicitly disclose but Sung discloses a method as recited in claim 8, wherein the transforming comprises transforming the selected segments according to randomly chosen protection techniques (see Sung, col. 1-20). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Yorke-Smith's encryption method for encrypting data into a plurality of controlled and data blocks with Sung's teaching of selecting encryption randomly for a more secure data protection because in order for a person to know which encryption from among all the available encryptions is associated with a particular encryption selection data (see Sung, col. 3, lines 15-20).

In respect to claim 29 and 30, Yorke-Smith and Gutowitz do not disclose a obfuscation system as recited in claim 27, wherein the target segment selector comprises a pseudo random generator to enable random selection of the segment. However, Sung discloses using a pseudo random generator to enable random selection of segment and protection tool (see Sung, col. 3, lines 4-20 and col. 4, lines 20-30). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Yorke-Smith's and Gutowitz's encryption method for encrypting data into a plurality of controlled and data blocks with Sung's teaching of selecting encryption by using pseudo random generator for a more secure data protection because in order for a person to know which encryption from

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among all the available encryptions is associated with a particular encryption selection data (Sung, col. 3, lines 15-20).

6. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) in view of Gutowitz (U.S. Patent No. 5,365,589) and further in view of Schuster et al. (U.S. Patent No. 6,483,600, hereinafter Schuster).

In respect to claim 9, Yorke-Smith discloses a method as recited in claim 8. Yorke-Smith does not explicitly disclose wherein at least two of the segments overlap one another. However, Schuster discloses receiving overlapped data segment (see Schuster, col. 15, lines 29-42, redundant packets). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of York-Smith's encryption method for encrypting data into a plurality of data segments with the teaching of Schuster for sending overlapping data segment in an event that data is lost (see, Schuster col. 15, lines 40-42).

7. Claims 15, 20 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) in view of Gutowitz (U.S. Patent No. 5,365,589) and further in view of Collberg (U.S. Patent No. 6,668,325).

In respect to claim 15, Yorke-Smith and Gutowitz disclose a method as recited in claim 8. Yorke-Smith disclose using plurality of encryption tools but do not explicitly discloses wherein the various forms of protection are selected from a group of protection tools comprising code integrity verification, acyclic code integrity verification,

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cyclic code integrity verification, secret key scattering, obfuscated function execution, encryption/decryption, probabilistic checking, Boolean check obfuscation, in-lining, reseeding pseudo random number generators with tune varying inputs, anti-disassembly methods, varying execution paths between runs, anti-debugging methods, and time/space separation between tamper detection and response. However, Collberg discloses using Obfuscated technique to transform selected subset of software code (see Collberg, Abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Yorke-Smith's encryption system with various protection tools because the more protective tools is used the harder it is to for the data to be tampered with.

In respect to claim 20, Yorke-Smith and Gutowitz disclose a method as recited in claim 18. Yorke-Smith and Gutowitz do not explicitly disclose wherein the augmenting comprises applying a protection technique selected from a group of protection techniques comprising code integrity verification, acyclic code integrity verification, cyclic code integrity verification, secret key scattering, obfuscated function execution, encryption/decryption, probabilistic; checking, Boolean check obfuscation, in lining, reseeding pseudo random number generators with time varying inputs, anti disassembly methods, varying execution paths between runs, anti-debugging methods, and time/space separation between tamper detection and response. However, Collberg discloses using Obfuscated technique to transform selected subset of software code (see Collberg, Abstract). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the

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encryption system taught by Yorke-Smith and Gutowitz with these specific protective tools because the more protective tools is used the harder it is to for the data to be tampered with.

In respect to claim 28, the claim limitation is a system claim which is substantially similar to method claim 20 and therefore the same rejection applied.

8. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) and Gutowitz (U.S. Patent No. 5,365,589) and further in view of Levit (U.S. Patent No. 5,420,942).

In respect to claim 19, Yorke-Smith and Gutowitz disclose a method as recited in claim 18. York-Smith does not explicitly disclose wherein the establishing comprises enabling a user to enter the parameters. However, Levit discloses allowing user manually entering parameter (see Levit, col. 8, line 67-col. 9, line 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Yorke-Smith's encryption system that allow the user to enter the parameters for the benefit of having user to decide what program data to be encrypted instead of the software to do the task.

9. Claims 16 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) in view of Gutowitz (U.S. Patent No. 5,365,589) and further in view of Simmon et al. (U.S. Patent No. 6,507,868, hereinafter Simmon).

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In respect to claim 16, Yorke-Smith and Gutowitz disclose method as recited in claim 8. Yorke-Smith do not explicitly disclose wherein the applying comprises applying a form of protection in which a checksum can be computed on a set of bytes of the digital goods without actually reading the bytes. However, Simmon discloses performing checksum on data packet (Simmon, col. 16, lines 63-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teaching of Yorke-Smith's encryption system with Simmon's teaching of using checksum to test data packet to ensure transmitted data has not been tampered during the transmission.

In respect to claim 21, Yorke-Smith and Gutowitz do not disclose a method as recited in claim 18, wherein the augmenting comprises applying a protection technique in which a checksum can be computed on a set of bytes of the digital goods without actually reading the bytes. However, Simmon discloses performing checksum on data packet (Simmon, col. 16, lines 63-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Yorke-Smith and Gutowitz's encryption system with Simmon's teaching using checksum to test data packet to ensure transmitted data has not been tampered during the transmission.

10. Claims 23, 26 and 32-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) in view of Gutowitz (U.S. Patent No. 5,365,589 and Sung (U.S. Patent No. 5,768,372).

In respect to claim 23, York-Smith discloses a production system, comprising:

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a memory to store an original digital goods (see col. 1, 1-10 and lines 48-52); and a production server equipped with a set of multiple protection tools that may be used to augment the original digital goods for protection purposes (see col. 1, lines 4-10 and col. 48-52), the production server being configured to parse the original digital goods (see col. 1, lines 48-67, col. 3, lines 25-27).

York-Smith does not explicitly disclose but Gutowitz discloses applying protection to selected portion of the original digital good (Gutowitz, col. 35, lines 64-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Gutowitz's encrypting selected portions of data with the teaching of Yorke-Smith's encrypting digital goods according to different protection techniques in order to protect selected information to different users according to different levels of security (Gutowitz, col. 35, lines 64-66).

Furthermore, Yorke-Smith does not disclose but Sung discloses apply protection tools selected from the set of protection tools to the original digital goods in a random manner to produce a protected digital goods (see Sung, col. 3, lines 1-20). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Yorke-Smith's encryption method for encrypting data into a plurality of controlled and data blocks with Sung's teaching of selecting encryption randomly for a more secure data protection because in order for a person to know which encryption from among all the available encryptions is associated with a particular encryption selection data (Sung, col. 3, lines 15-20).

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In respect to claim 26, Yorke-Smith, Gutowitz and Sung disclose a production system as recited in claim 23, wherein the production server has a pseudo random generator to introduce randomness into the application of the protection tools to various portions of the original digital goods (see Sung, col. 4, lines 20-30).

In respect to claim 32, Yorke-Smith discloses a client-server system, comprising: a production server to apply various forms of protection to a digital goods to produce a protected digital goods (see col. 1, lines 48-67); and a client to store and execute the protected digital goods the client being configured to evaluate the protected digital good (see col. 1, lines 1-10, 48-67, col. 3, lines 5-12 and col. 5, lines 23-25).

Yorke-Smith does not disclose but Gutowitz discloses applying protection to selected portion of the original digital good (Gutowitz, col. 35, lines 64-67). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Gutowitz's encrypting selected portions of data with the teaching of Yorke-Smith's encrypting digital goods according to different protection techniques in order to protect selected information to different users according to different levels of security (Gutowitz, col. 35, lines 64-66).

Yorke-Smith does not disclose but Sung discloses randomly applying various forms of protection to a digital goods (see Sung, col. 6, lines 31-40). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Yorke-Smith's encryption method for encrypting data into a plurality of controlled and data blocks with Sung's teaching of selecting encryption randomly for a more secure data protection because a person attempting to copy the

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programming data would not be able to know which encryption is being used even if all the potential encryptions is known (see Sung, col. 3, lines 14-20).

In respect to claim 33, the claim limitation is a computer-readable media claim which is substantially similar to method claim 23 and therefore the same rejection applied.

In respect to claim 34, Yorke-Smith and Gutowitz disclose one or more computer-readable media as recited in claim 33. Yorke-Smith and Gutowitz do not disclose but Sung discloses comprising computer-executable instructions to randomly select the protection, tools from a set of available protection tools (see Sung, col. 6, lines 32-40 and). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Yorke-Smith's encryption method for encrypting data into a plurality of controlled and data blocks with Sung's teaching of selecting encryption randomly for a more secure data protection because a person attempting to copy the programming data would not be able to know which encryption is being used even if all the potential encryptions is known (see Sung, col. 3, lines 14-20).

In respect to claim 35, Yorke-Smith and Gutowitz disclose one or more computer-readable media as recited in claim 33. Yorke-Smith and Gutowitz do not disclose but Sung discloses comprising computer-executable instructions to apply the protection tools to randomly selected portions of the original digital goods (see Sung, col. 3, lines 1-20 and col. 6, lines 32-40). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching

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of Yorke-Smith's and Gutowitz's encryption method for encrypting data into a plurality of controlled and data blocks with Sung's teaching of selecting encryption randomly for a more secure data protection because a person attempting to copy the programming data would not be able to know which encryption is being used even if all the potential encryptions is known (see Sung, col. 3, lines 14-20).

11. Claims 24 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) in view of Gutowitz (U.S. Patent No. 5,365,589) and Sung (U.S. Patent No. 5,768,372) and further in view of Collberg (U.S. Patent No. 6,668,325).

In respect to claims 24 and 36, Yorke-Smith, Gutowitz and Sung disclose a method as recited in claims 23 and 33. Yorke-Smith discloses using plurality of encryption tools but do not explicitly discloses wherein the various forms of protection are selected from a group of protection tools comprising code integrity verification, acyclic code integrity verification, cyclic code integrity verification, secret key scattering, obfuscated function execution, encryption/decryption, probabilistic checking, Boolean check obfuscation, in-lining, reseeding pseudo random number generators with tune varying inputs, anti-disassembly methods, varying execution paths between runs, anti-debugging methods, and time/space separation between tamper detection and response. However, Collberg discloses using Obfuscated technique to transform selected subset of software code (see Collberg, Abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Yorke-

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Smith, Gutowitz and Sung's encryption system with these specific protective tools because the more protective tools is used the harder it is to for the data to be tampered with.

12. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) in view of Gutowitz (U.S. Patent No. 5,365,589) and Sung (U.S. Patent No. 5,768,372) and further in view of Simmon et al. (U.S. Patent No. 6,507,868).

In respect to claim 25, Yorke-Smith, Gutowitz and Sung do not disclose a method as recited in claim 23 wherein the applying comprises applying a form of protection in which a checksum can be computed on a set of bytes of the digital goods without actually reading the bytes. However, Simmon discloses performing checksum on data packet (Simmon, col. 16, lines 63-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the encryption system of Yorke-Smith and Sung with testing the checksum taught by Simmon to ensure transmitted data has not been tampered during the transmission.

13. Claims 1-4 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) in view of Gutowitz (U.S. Patent No. 5,365,589) and Sung et al. (U.S. Patent No. 5,768,372) and further in view of Schuster et al. (U.S. Patent No. 6,483,600).

In respect to claim 1, Yorke-Smith discloses a method comprising:

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receiving an original digital good; and applying various forms of protection to the original digital goods to produce a protected digital goods (see Yorke-Smith Abstract and col. 1, lines 48-67, col. 2, lines 50-65).

Yorke-Smith does not disclose but Gutowitz discloses applying protection to selected portion of the original digital good (Gutowitz, col. 35, lines 64-67). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Gutowitz's encrypting selected portions of data with the teaching of Yorke-Smith's encrypting digital goods according to different protection techniques in order to protect selected information to different users according to different levels of security (Gutowitz, col. 35, lines 64-66).

Yorke-Smith does not explicitly disclose applying randomly various forms of protection. However, Sung discloses randomly selects which of the encryption to use (see Sung Abstract and col. 6, lines 32-40). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Yorke-Smith for applying various forms of protection with Sung's teaching of selecting encryption randomly for a more secure data protection because a person attempting to copy the programming data would not be able to know which encryption is being used even if all the potential encryptions is known (see Sung, col. 3, lines 14-20).

Furthermore, Yorke-Smith does not disclose wherein at least two of the segments overlap one another. However, Schuster discloses receiving overlapped data segment (see Schuster, col. 15, lines 29-42, redundant packets). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine

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the teaching of York-Smith and Sung's encryption method for encrypting data into a plurality of data segments with the teaching of Schuster for sending overlapping data segment in an event that data is lost (see, Schuster col. 15, lines 40-42).

In respect to claim 2, Yorke-Smith, Gutowitz, Sung and Schuster disclose a method as recited in claim 1, wherein the randomly applying comprises pseudo randomly applying the various forms of protection according to pseudo random techniques (see Sung, col. 4, lines 20-30).

In respect to claim 3, Yorke-Smith, Gutowitz, Sung and Schuster disclose a method as recited in claim 1, wherein the applying comprises randomly selecting the forms of protection from a set of available forms of protection (see Sung, col. 6, lines 32-40).

In respect to claim 4, Yorke-Smith, Gutowitz, Sung and Schuster disclose a method as recited in claim 1, wherein the applying comprises applying the various forms of protection to randomly selected portions of the original digital goods (see Sung, 3, lines 14-20).

In respect to claim 7, the claim limitation is a computer-readable medium claim which is substantially similar to method claim 1 and therefore the same rejection applied.

14. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) in view of Gutowitz (U.S. Patent No. 5,365,589),

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Sung (U.S. Patent No. 5,768,372) and Schuster et al. (U.S. Patent No. 6,483,600) and further in view of Collberg et al. (U.S. Patent No. 6,668,325, hereinafter Collberg).

In respect to claim 5, Yorke-Smith, Gutowitz, Sung and Schuster disclose a method as recited in claim 1. Yorke-Smith, Gutowitz, Sung and Schuster disclose plurality of encryption tools but do not explicitly disclose wherein the various forms of protection are selected from a group of protection tools comprising code integrity verification, acyclic code integrity verification, cyclic code integrity verification, secret key scattering, obfuscated function execution, encryption/decryption, probabilistic checking, Boolean check obfuscation, in-lining, reseeding pseudo random number generators with tune varying inputs, anti-disassembly methods, varying execution paths between runs, anti-debugging methods, and time/space separation between tamper detection and response. However, Collberg discloses using Obfuscated technique to transform selected subset of software code (see Collberg, Abstract). Therefore, it would have been obvious to one of ordinary skill in the art to implement the encryption system taught by Yorke-Smith, Sung and Schuster with various protective tools for a more secure data protection because the more potential tools is used the more difficult it is for data to be tampered with.

15. Claims 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yorke-Smith (U.S. Patent No. 5,548,648) in view of Gutowitz (U.S. Patent No. 5,365,589), Sung et al. (U.S. Patent No. 5,768,372) and Schuster et al. (U.S. Patent No. 6,483,600) and further in view of Simmon et al. (U.S. Patent No. 6,507,868).

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In respect to claim 6, Yorke-Smith, Sung and Schuster disclose method as recited in claim 1. Yorke-Smith, Sung and Schuster do not explicitly disclose wherein the applying comprises applying a form of protection in which a checksum can be computed on a set of bytes of the digital goods without actually reading the bytes. However, Simmon discloses performing checksum on data packet (Simmon, col. 16, lines 63-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the encryption system of Yorke-Smith, Sung and Schuster with testing the checksum taught by Simmon to ensure transmitted data has not been tampered during the transmission.

Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tongoc Tran whose telephone number is (703) 305-7690. The examiner can normally be reached on 8:30-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory A. Morse can be reached on (703) 308-4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner: Tongoc Tran

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TT

MATTHEW SMITHERS
PRIMARY EXAMINER
Art Unit 2137